



CABY Integrated Regional Water Management Plan Proposition 84 2015 IRWM Round 3 Grant Solicitation Attachment 6. Program Preferences

Certainty of Meeting Program Preferences: As a result of the thorough analysis that was performed on these projects CABY is fully certain that each of the projects included in this Proposal will provide the benefits described below.

TABLE 6-1: PROPOSED PROJECTS AND PROGRAM PREFERENCES

Proposed Projects	1. Regional Projects	2. Integrate Water Programs	3. Resolve Conflict	4. Bay Delta Objectives	5. Benefit DACs	6. Land Use Planning	7. Reduce Reliance on Delta	8. Statewide Priorities
Meade Canal DAC Project	Yes	Yes	Yes	Yes	Yes	Yes	N/A	Yes
Drought Response Disinfection Project	Yes	Yes	Yes	Yes	Yes	Yes	N/A	Yes
Degree Of Certainty Preference Will Be Addressed	High	High	High	High	High	High	N/A	Yes
Magnitude & Breadth Preference is Addressed	Region	Region	Region	State	Local	Local	N/A	State

As shown above in Table 6-1, projects included in this Proposal will address each of the Program Preferences on a local, regional, and/or statewide scale. These terms, used to define the breadth and magnitude to which each project addresses the Program Preferences, are defined as follows: *Local*: Project benefits are focused locally within the project area. *Regional*: Project benefits extend throughout the CABY IRWM Region –addressing multiple issues and serving as examples to other stakeholders. *Statewide*: Project benefits are widespread and will benefit not only the Region, but also other areas throughout California.

Program Preference 1: Both projects are considered to be regional as they are models for urgently needed projects that can be exported across the region once the project is successfully completed. Additionally, in the mind of the CABY PC, projects, which meet multiple Plan objectives are considered to be models for how future projects should be developed, integrated and implemented.

Program Preference 2: The projects collectively operate in an effective, integrated fashion to address multiple cumulative impacts to the headwaters of California's water supply especially directed to improving aging infrastructure to ensure water supply reliability and good water quality to DACs in the region. **Program Preference 3:** CABY IRWM Plan Objectives were established as a result of an open and transparent consensus-driven stakeholder process, where all stakeholders were invited to voice their significant issues and conflicts within the region. As a result, the two projects included in this proposal address many collaboratively developed updated IRWM Goals and Objectives. While no predominantly natural resource projects were included in this proposal, stakeholders fully supported the inclusion of all the projects in the proposal, especially as they are both directed to improving conditions in DACs.

Program Preference 4: The two projects in this Application meet the following CalFed Bay-Delta Program objectives: **Water Quality:** By improving water storage and delivery systems, the projects will minimize water quality concerns associated with these systems.

Water Supply: The water delivery systems of the project communities are particularly vulnerable to system performance problems as a result of aging infrastructure and with the added problems that the current drought is bringing to the region and the state. Infrastructural upgrades included in this proposal will help disadvantaged and/or rural communities to proactively address system vulnerabilities, while improving water quality and reducing substantial water wastage. These improvements will build these communities' capacity to meet their water supply needs while addressing drought concerns in their communities and by protecting flows to the Delta and increasing the efficiency of the regional and statewide water delivery systems.

Program Preference 5: Both Projects in this application fulfill this preference as follows: *Meade Canal DAC Project* is improving both critical water quality and water supply needs of a DAC and *Drought Response Disinfection By-Product Reduction Project* addresses a critical water quality and water supply need for multiple DACs in the PCWA district of the CABY IRWM region. **Program Preference 6:** Many of the land use plans and regulations of land-use agencies within the Region are consistent with the water management goals, objectives, and strategies included in the Updated CABY IRWM Plan. Both projects ensure clean safe drinking water, which in turn ensures current and future land use development plans remain viable.

Program Preference 7: N/A. Program Preference 8: This project addresses statewide priorities by improving the infrastructure for water delivery and storage while significantly enhancing water quality and water conservation measures and remediation and protection of the headwaters of California's water supply. Both projects will either directly or indirectly address Statewide Priorities established by DWR. Based on the level of analysis for each project, it is fully certain that each of these projects and the proposal will achieve the Statewide priorities at a regional level (throughout the CABY region and beyond).

HUMAN RIGHT TO WATER POLICY

AB685 recognizes that “every human being has the right to safe, clean, affordable and accessible water adequate for human consumption, cooking and sanitary purposes.” Much of the infrastructure in the CABY region, especially in the region’s DACs, is old, degraded or functionally obsolete. Although CABY is funded primarily by the larger urban water agencies in the region, all members of the RWMG are aware of the critical needs of DACs and other rural communities to improve infrastructure needs that provide safe clean water to domestic users in the region AND projects that have the added benefit of conserving water that will ultimately reach other DACs and communities outside the region who need safe clean water. The projects included in this application were vetted with both these factors in mind. (See below for how individual projects that assist in meeting Human Right to Water goals.)

Meade Canal DAC Project: Statewide Priorities

This project addresses critical water supply and water quality needs of a DAC by addressing infrastructure renovations to the NID Water System are necessary to assure continued reliability of the minimum quality and quantity of water. **Drought Preparedness:** This project promotes water conservation and achieves long-term reduction of water use by actively addressing system inefficiencies, conserving water and reducing water losses through the piping of a canal. It will be a major contributor to drought preparedness by providing a sustainable and reliable water supply during water shortages. This project will result in an estimated 25 ac-ft/year of water savings for the Water Treatment Plant serving residential users in the DAC of Smartsville and will provide more reliable water deliveries. The project will help the overall regional effort to implement conservation measures while providing multiple benefits and contributing to sustainable water supply and reliability during water shortages. **Use and Re-Use Water More Efficiently:** This project increases water use efficiency by ensuring water supply reliability and reducing water loss in an earthen canal. **Climate Change Response Actions:** Increasing temperatures resulting in earlier and heavier snowmelt runoff, will have greater effect on water purveyors reliant on surface water, much of which comes from late season Sierra Nevada mountain snowpack for NID. NID relies on this snowpack for measured release and late season water storage. This project will help conserve current and future water supplies by reducing water losses throughout the water conveyance system. The project also uses and delivers water more efficiently by reducing seepage. **Expand Environmental Stewardship:** By protecting water quantity and water quality in the delta headwaters, this project helps protect, restore, and enhance the Delta ecosystem. **Protect Surface Water and Groundwater Quality:** This project protects water quality by reducing contamination and sedimentation. **Ensure Equitable Benefits: Human Right to Water:** This project ensures human right to water by providing a reliable supply of safe, clean and affordable water, adequate for human consumption, cooking and sanitary purposes for residential customers in a DAC.

Drought Response Disinfection By-Product Project: Statewide Priorities

This project addresses critical water supply and water quality needs of a DAC by addressing infrastructure renovations to the NID Water System are necessary to assure continued reliability of the minimum quality and quantity of water. **Drought Preparedness:** This project promotes water conservation and achieves long-term reduction in water use. The tank mixer and ventilations systems are a water conscious approach to addressing unacceptable TTHM concentrations – which are a direct result of on-going drought conditions. Without this project, PCWA would waste large volumes of water draining and filling tanks to control TTHM levels. The project offers a long-term solution and provides PCWA with more flexibility in handling variable water quality conditions and enduring future droughts. By implementing this project, PCWA will be able to promote continued water conservation measures by providing high quality water even during the operational challenges associated with drought conditions as well as setting a good example of the importance of water conservation for PCWA’s water users. **Use and Re-Use Water More Efficiently:** This project increases urban water use efficiency by reducing water losses in PCWA’s water distribution system. **Climate Change Response Actions:** PCWA’s project uses water more efficiently, reducing energy demand and GHG emissions, and promoting water use efficiency. By implementing the project, PCWA is modeling a positive example of water use efficiency to its customers. By efficiently using the treated potable water in the existing tanks PCWA will be reducing energy and GHG emissions when compared to other alternatives for controlling TTHMs. The energy costs and GHG emissions associated with treating more water to replace the water wasted during the draining process will be avoided with the implementation of the project. **Expand Environmental Stewardship:** By protecting water quantity and water quality in the delta headwaters, this project helps protect, restore, and enhance the Delta ecosystem. **Ensure Equitable Benefits: Human Right to Water:** PCWA’s project contributes to the statewide priority to ensure equitable distribution of benefits by increasing the participation of DACs (Auburn, Colfax, and Newcastle) in the CABY IRWM process, developing multi-benefit projects with consideration of affected DACs and vulnerable populations, addressing safe drinking water treatment needs of DACs, and addressing the Human Right to Water needs within the CABY region by providing access to safe, clean, and affordable water, adequate for human consumption, cooking and sanitary purposes to multiple DACs in the region.